

This Will Acknowledge receipt of the following application papers at the U.S. Patent Office:

Inventors: Qingming Ma

Filing Date: April 25, 2000

Invention for: APPARATUS AND METHOD FOR SCALABLE AND DYNAMIC

This Will Acknowledge receipt of the following application papers at the U.S. Patent Office:

Inventors: Qingming Ma

Filing Date: April 25, 2000

Invention for: APPARATUS AND METHOD FOR SCALABLE AND DYNAMIC TRAFFIC ENGINEERING IN A DATA COMMUNICATION NETWORK

Having: Utility Patent Application Transmittal, 40 pages of specification, 9 pages of claims, one page of Abstract, and 13 sheets of Drawings

Docket No. CISCO-1119

Attorney: David B. Ritchie

Express Mail No.: EL209954141US

RECEIVED

MAY - 8 2000

jc675 U.S. PTO

09/558693



04/25/00

D'ALESSANDRO & RITCHIE

MAY 5 2000

Filing Date: April 25, 2000

Invention for: APPARATUS AND METHOD FOR SCALABLE AND DYNAMIC TRAFFIC ENGINEERING IN A DATA COMMUNICATION NETWORK

Having: Utility Patent Application Transmittal, 40 pages of specification, 9 pages of claims, one page of Abstract, and 13 sheets of Drawings

Docket No. CISCO-1119

Attorney: David B. Ritchie

Express Mail No.: EL209954141US

jc675 U.S. PTO

09/558693



04/25/00

PLEASE HOLD FOR SERIAL NUMBER

BEST AVAILABLE COPY

EL209954141US

EXPRESS  
MAIL

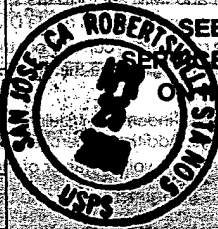
UNITED STATES POSTAL SERVICE™

POST OFFICE TO ADDRESSEE

ORI  
PO 2

## ORIGIN (POSTAL USE ONLY)

Date	PO ZIP Code	Day of Delivery	Flat Rate Envelope
4/25/00	95158	<input checked="" type="checkbox"/> Next <input type="checkbox"/> Second	<input type="checkbox"/> Flat Rate Envelope
Time	Time	Postage	Return Receipt Fee
12:00 PM	1:00 PM	\$15.75	1.25
Weight	Weight	Insurance Fee	Total Postage & Fees
16.41 lbs.	0.15 ozs.		\$17.00
No Delivery	Acceptance Mark Initials	Total Postage & Fees	
<input type="checkbox"/> No Delivery	<input checked="" type="checkbox"/> Initials	\$17.00	

SEE REVERSE SIDE FOR  
SERVICE GUARANTEE AND LIMITS  
INSURANCE COVERAGE

## CUSTOMER USE ONLY

METHOD OF PAYMENT:	Express Mail Corporate Acct. No.	Waiver of Signature (Domestic Only)
	X 951676	<input type="checkbox"/> I wish delivery to be made without obtaining signature of addressee or addressee's agent. (If delivery employee judges that article can be left in secure location) and I authorize that delivery employee's signature constitutes valid proof of delivery.
Federal Agency Acct. No. or Postal Service Acct. No.		NO DELIVERY

## FROM: (PLEASE PRINT)

D'ALESSANDRO & RITCHIE  
PO BOX 640640  
SAN JOSE CA 95164-0640  
CISCO-1119

## TO: (PLEASE PRINT)

BOX PATENT APPLICATION  
ASSISTANT COMMISSIONER  
FOR PATENTS  
WASHINGTON DC 20231-9999

PRESS HARD.

You are making 3 copies.

FOR PICKUP OR TRACKING CALL 1-800-222-1811

www.usps.gov

Customer Copy  
Label 11-F  
July 1997

51

F0  
T2

Is your RETURN ADDRESS completed on the reverse side?

## SENDER:

- Complete item
- Complete item
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:  
Box Patent Application  
Assistant Commissioner for  
Patents  
Washington, DC 20231-9999

5. Received By:

6. Signature:

X

PS Form 381

## SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:  
Box Patent Application  
Assistant Commissioner for  
Patents  
Washington, DC 20231-9999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

PS Form 3811, December 1994

CISCO-1119

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

EL209954141US

## 4b. Service Type

- |   |                                    |
|---|------------------------------------|
| <input type="checkbox"/> Registered                     | <input type="checkbox"/> Certified |
| <input checked="" type="checkbox"/> Express Mail        | <input type="checkbox"/> Insured   |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD       |

## 7. Date of Delivery

## 8. Addressee's Address (Only if requested and fee is paid)

RECEIVED

APR 27 2000

PTO MAIL CENTER

Thank you for using Return Receipt Service.

BEST AVAILABLE COPY

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	) Art Unit:
Qingming Ma	) Examiner:
Serial No. [Not yet assigned]	)
Filed: April 25, 2000	)
For: APPARATUS AND METHOD FOR	)
SCALABLE AND DYNAMIC	)
TRAFFIC ENGINEERING IN A DATA	)
<u>COMMUNICATION NETWORK</u>	)

**CERTIFICATE OF MAILING**

"Express Mail" mailing label no: EL209954141US

Date of Deposit: April 25, 2000

I hereby certify that this correspondence is being  
deposited with the United States Postal Service "Express  
Mail Post Office to Addressee" service under 37 CFR  
1.10 on the date indicated above and is addressed to:

Box Patent Application

Assistant Commissioner for Patents

Washington, D.C. 20231



Diane Morse

**TRANSMITTAL LETTER**

Honorable Assistant Commissioner  
for Patents

Box Patent Application  
Washington, D.C. 20231

Dear Sir:

Enclosed for filing please find the patent application for an invention entitled,  
"APPARATUS AND METHOD FOR SCALABLE AND DYNAMIC TRAFFIC  
ENGINEERING IN A DATA COMMUNICATION NETWORK", filed on behalf of Cisco  
Technology, Inc., assignee from inventor Qingming Ma, including Utility Patent  
Application Transmittal, 40 pages of specification, 9 pages of claims, 13 sheets of  
drawing figures, and 1 pages of Abstract.

The attorney's Docket Number is CISCO-1119.


Kindly address all communications regarding this application to:

David B. Ritchie  
D'Alessandro & Ritchie  
P.O. Box 640640  
San Jose, CA 95164-0640  
Telephone (408) 441-1100

No fee is being paid at this time.

Respectfully submitted,  
D'ALESSANDRO & RITCHIE

Dated: April 25, 2000

---

David B. Ritchie  
Reg. No. 31,562

D'Alessandro & Ritchie  
P.O. Box 640640  
San Jose, CA 95164-0640  
(408) 441-1100

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (4/98)  
Approved for use through 09/30/2000. OMB 0851-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. CISCO-1119  
First Inventor or Application Identifier Qingming Ma  
Title Apparatus and Method for Scalable and...  
Express Mail Label No. EL209954141US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☐ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification (Total Pages 50)  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) (Total Sheets 13)
4. Oath or Declaration (Total Pages)
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 C.F.R. § 1.83(d))  
(for continuation/divisional with Box 16 completed)
  - L ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

**NOTE FOR ITEM 12: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY  
FEES, A SMALL ENTITY STATEMENT IS REQUIRED AT 37 C.F.R. § 1.37, EXCEPT  
IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON AT 37 C.F.R. § 1.37.**

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement of Power of Attorney  
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \* Small Entity Statement filed in prior application,  
Statement(s) Status still proper and desired  
(PTO/SB/05-12)
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☐ Other:

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment

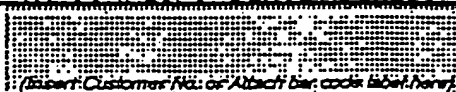
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group / Art Unit \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label



or ☐ Correspondence address below

Name David B. Ritchie  
D'Alessandro & Ritchie  
Address P. O. Box 640640  
City San Jose State CA Zip Code 95164-0640  
Country USA Telephone 408-441-1100 Fax 408-441-8400

Name (Print/Type) David B. Ritchie Registration No. (Attorney/Agent) 31,562  
Signature [Signature] Date 25 April 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.